



Procter & Gamble  
Fabric & Home Care Division  
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## MATERIAL SAFETY DATA SHEET

MSDS# FH/F/2002/AKAL-5FPP9X(S.1)

Issue Date: 8/27/03

Supersedes: FH/F/2002/AKAL-5FPP9X(S)

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### SECTION I - CHEMICAL PRODUCT

Identity: **Liquid Fabric Enhancer**

Brands: **DOWNY ENHANCER (Invigorating Burst and Calming Mist) and DOWNY ADVANCED WITH WRINKLE CONTROL (Clean Breeze and Mountain Spring)**

Hazard Rating

Health: 1

4=EXTREME

Flammability: 1

3=HIGH

Reactivity: 0

2= MODERATE

1=SLIGHT

Emergency Telephone Number: 24hr P&G Operator - 1-800-688-7638 or call Local Poison Control Center

### SECTION II - COMPOSITION AND INGREDIENTS

Ingredients/Chemical Name: Biodegradable fabric softening agents (cationic).

Hazardous Ingredients as defined by OSHA, 29 CFR 1910.1200.

				Composition Range	LD50/LC50
<u>Chemical Name</u>	<u>CAS. No.</u>	<u>ACGIH-TLV</u>	<u>OSHA PEL</u>		
Ethanol	64-17-5	1000ppm 1880 mg/m3	1000ppm 1900 mg/m3	1-5%	NA
Hexylene Glycol	107-41-5	25 ppm 121 mg/m3	-	1-5%	NA

### SECTION III - HAZARDS IDENTIFICATION

**Health Hazards (Acute and Chronic):**

**Ingestion:** Mild irritant

**Eye Contact:** Mild irritant

**Skin:** Mild irritant

**Inhalation:** NA

**Signs and Symptoms of Exposure:**

**Ingestion:** May result in gastrointestinal irritation with transient nausea, vomiting or diarrhea.

**Eye Contact:** May result in transient superficial effects similar to those produced by mild toilet soap.

**Skin:** May result in transient superficial effects similar to those produced by mild toilet soap.

**Inhalation:** NA

DOWNY ENHANCER and DOWNY ADVANCED WITH WRINKLE CONTROL MSDS (Continued)

SECTION IV - FIRST AID INFORMATION

**Emergency and First Aid Procedures:**

**Ingestion:** Dilute with fluids and treat symptomatically.

**Eye Contact:** Flush eyes with water.

**Skin:** Rinse exposed skin. Remove contaminated clothing and launder before reuse.

**Inhalation:** NA

**Other:** Consumer product packages have a caution statement: "WARNING: Some cotton-containing fluffier fabrics, including fleece and terry cloth, are more flammable than other fabrics. \*By increasing fluffiness, using liquid fabric softeners can increase the flammability of these types of fabrics. \*Therefore, do not use this product on clothing made with these types of fluffier fabrics. WARNING: Do not use this product on children's sleepwear or garments labeled as flame resistant, as it may reduce flame resistance."

SECTION V - FIRE FIGHTING INFORMATION

**Flash Point (Method Used):** ~200°F (PM Closed Cup)

**Explosive Limits:** LEL: NA UEL: NA

**This product does not sustain combustion.**

**Extinguishing Media:** Use CO2, water, or dry chemical.

**Special Fire Fighting Procedures:** Use water to keep fire exposed container cool.

**Unusual Fire Hazards:** None. Product must be heated considerably for ignition to occur.

**Stability** *Unstable:*

*Conditions to Avoid:* None known

*Stable:* X

**Incompatibility (Materials to Avoid):** None

**Hazardous Decomposition/By Products:** None

**Hazardous Polymerization:**

*May Occur:*

*Conditions to Avoid:* None known

*Will Not Occur:* X

SECTION VI - ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Wear gloves and safety glasses. Avoid breathing vapor.

**Environmental Precautions:** Do not landfill this liquid product. Any spills are to be prevented from entering storm sewers and waterways. Sorbents may be used. DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

**Steps To Be Taken in Case Material is Released or Spilled:** Recover with an absorbent material and dispose.

SECTION VII - HANDLING AND STORAGE

**Precautions To Be Taken in Handling and Storing:** Store in a cool, dry, well ventilated area.

**Other Precautions:** None required.

**DOWNY ENHANCER and DOWNY ADVANCED WITH WRINKLE CONTROL MSDS (Continued)****SECTION VIII - EXPOSURE CONTROLS, PERSONAL PROTECTION**

**Respiratory Protection (Specify Type):** No special precautions for casual exposure.

**Ventilation**      *Local Exhaust:* Not necessary.      *Special:* None.  
                         *Mechanical (General):* Acceptable.      *Other:* None.

**Eye Protection:** None required for normal use.

*Industrial Setting:* For splash protection use chemical goggles.

**Protective Gloves:** None required for normal use.

**Other Protective Equipment:** None required.

**SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES**

**Boiling Point °F:** NA

**Specific Gravity (H<sub>2</sub>O=1):** ca. 1

**Vapor Pressure (mm Hg):** NA

**Percent Volatile by Volume (%):** ca. 46%

**Vapor Density (Air=1):** NA

**Evaporation Rate (nBuOAc=1):** NA

**Solubility in Water:** Dispersible

**Appearance and Odor:** Clear blue liquid; fruity/floral

**SECTION X - STABILITY AND REACTIVITY**

**Possible Hazardous Reactions/Conditions:** Avoid mixing with strong oxidizing agents.

**Conditions to Avoid:** Avoid mixing with strong oxidizing agents.

**Materials to Avoid:** Avoid storage in carbon steel and aluminum.

**Hazardous Decomposition Products:** None.

**Other Recommendations:** Avoid breathing alcohol vapor coming off of product.

**SECTION XI - TOXICOLOGICAL INFORMATION**

Downy Enhancer and Downy Advanced with Wrinkle Control are practically nontoxic. Mildly irritating if ingested, but not corrosive.

LD50 (rats oral): > 5000 mg/kg

**SECTION XII - ECOLOGICAL INFORMATION**

The product is intended for wide dispersive use and is compatible with the down-the-drain disposal route. The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment at relevant environmental concentrations. The surfactants used in the product are biodegradable.

**SECTION XIII - DISPOSAL CONSIDERATIONS**

**Waste Disposal Method** Do not landfill. DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS. This product is not considered a RCRA hazardous waste.

**DOWNY ENHANCER and DOWNY ADVANCED WITH WRINKLE CONTROL MSDS (Continued)**

**SECTION XIV - TRANSPORT INFORMATION**

Product does not sustain combustion. The finished consumer product is non-hazardous under DOT.

**SECTION XV - ADDITIONAL REGULATORY INFORMATION**

All intentionally-added components of Downy Enhancer and Downy Advanced with Wrinkle Control are listed on the U.S. TSCA Inventory.

No components are affected by Significant New Use Rules (SNURs) under TSCA §5.

This product is not subject to warning labeling under California Proposition 65.

**SECTION XVI - OTHER INFORMATION**

\*NA. - Not Applicable

\*NK. - Not Known

The submission of this MSDS may be required by law, but this is not an assertion that the substance is hazardous when used in accordance with proper safety practices and normal handling procedures. Data supplied is for use only in connection with occupational safety and health.

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